

# FASCINATING FACTS

CANON

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ONTARIO  
WOMAN CARRIED  
OFF BY TORNADO FOR  
800 METRES



"THE GREAT ESCAPE"  
THAT COSTS YOU MONEY



THE FISH THAT CAN  
KNOCK OUT A HORSE



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# WHY ENERGY MATTERS

**Energy.** It makes the good life possible.

**Energy.** It enables us to keep warm. It helps to grow food. It gives power to industry. It gets us from one place to another. It gives us light, and it gives us our entertainment. *Energy matters to all of us.*

**Energy.** We take it for granted. Just flick a switch, turn up the thermostat, turn on the ignition key. Energy is always there.

But abundant supplies of energy won't last forever. It's up to all of us to use energy wisely. We must make our way of life as energy-efficient as possible for future generations.

We've come a long way. But we have to do more, much more.

The Ontario Ministry of Energy is working with industry, with business and with individuals to improve Ontario's energy efficiency.

**ENERGY MATTERS—FASCINATING FACTS** will provide you with information and tips on how you can do your part. After all, energy really does matter to all of us—for a bright tomorrow.



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# **LEADING THE WAY**

As Canada's largest consumers of energy, Ontarians should be leading the way in energy efficiency, now and into the future. Here are some "Fascinating Facts" about where we stand today.



## **FUEL AND MONEY SOON PARTED**

ONTARIO RESIDENTIAL CONSUMERS SPENT ABOUT  
**\$4 BILLION** ON ENERGY IN THE HOME IN 1987.

ONTARIO DRIVERS PAID OUT ABOUT **\$4 BILLION**  
FOR GASOLINE.

## **DROPPED FOR A NEW FLAME**

IN 1975, OIL HEATED 47% OF ONTARIO RESIDENCES. IN 1987,  
ONLY 19% OF ONTARIO HOMES WERE HEATED BY OIL.

THE PRINCIPAL HEATING FUEL IN ONTARIO IS NOW NATURAL GAS  
WHICH HEATS 59% OF ONTARIO RESIDENCES.



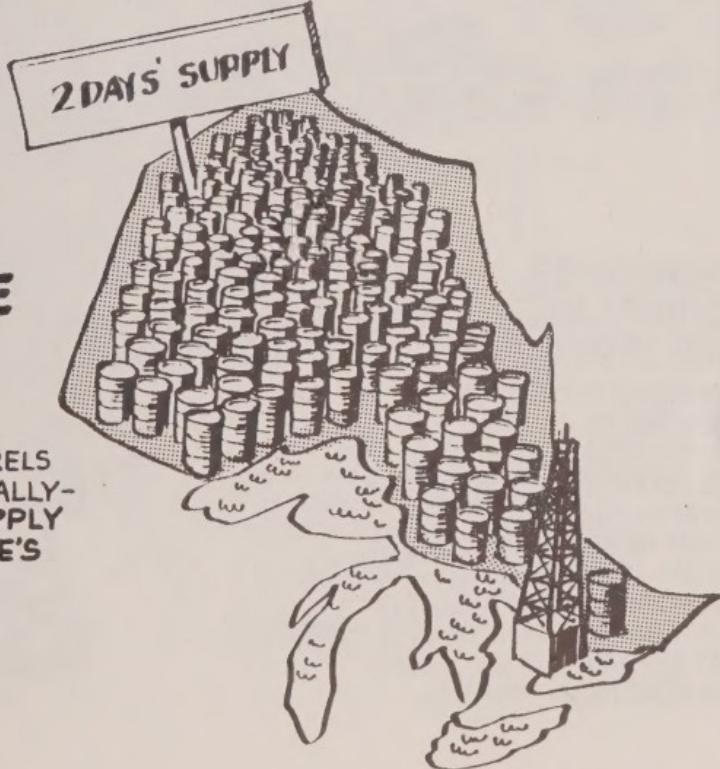
## DEPENDENT BY NATURE

ONTARIO DEPENDS  
ON OUTSIDE SOURCES  
FOR MOST OF ITS ENERGY  
REQUIREMENTS.

VIRTUALLY ALL FOSSIL FUELS  
(OIL, NATURAL GAS AND COAL)  
ARE BROUGHT IN FROM  
OUTSIDE THE PROVINCE.  
ONTARIO'S MAIN "HOME  
GROWN" ENERGY FORM  
IS ELECTRICITY WHICH  
PROVIDES 18% OF OUR  
ENERGY CONSUMPTION.

## EVERY LITTLE BIT HELPS

ONTARIO PRODUCES  
SOME 1,000,000 BARRELS  
OF CRUDE OIL ANNUALLY—  
ABOUT 2 DAYS' SUPPLY  
FOR THE PROVINCE'S  
REFINERIES!



# **CONSERVING COULD SAVE MILLIONS**

ONTARIO HYDRO BELIEVES CONSERVATION MAKES ECONOMIC SENSE. THE CORPORATION EXPECTS TO SAVE 2,000 MEGAWATTS BY THE YEAR 2000 BY ENCOURAGING CUSTOMERS' EFFICIENCY AND ANOTHER 1,000 MEGAWATTS BY SHIFTING ELECTRICITY USE TO OFF-PEAK HOURS.

## **WATT'S COOKIN?**

EACH ONTARIO HOUSEHOLD CONSUMES ROUGHLY THREE KILOWATTS OF ELECTRICITY AT THE TIME OF PEAK DEMAND.



## **SUNPOWER SHINES ON BIG TROUT LAKE**

PHOTOVOLTAIC SYSTEMS USE THE POWER OF THE SUN TO GENERATE ELECTRICITY. A SMALL-SCALE EXAMPLE IS A CALCULATOR THAT NEEDS NO BATTERIES. A BIG 10-KILOWATT PHOTOVOLTAIC SYSTEM, ENOUGH TO SUPPLY SEVERAL RESIDENCES, IS IN OPERATION AT REMOTE BIG TROUT LAKE IN NORTHERN ONTARIO.



## **HYDRO AS MEDIC**

ONTARIO HYDRO REACTORS SUPPLY 85% OF THE COBALT-60 USED AROUND THE WORLD FOR RADIATION THERAPY OF CANCER PATIENTS.



# DUMPING ENERGY

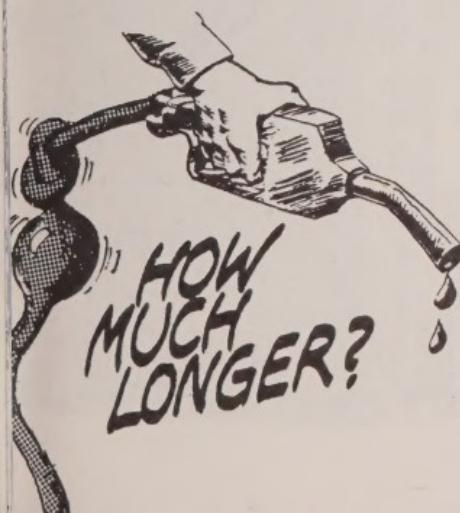


THE AVERAGE PERSON  
IN ONTARIO GENERATES  
ONE TONNE OF  
GARBAGE A YEAR...  
ENOUGH TO PRODUCE  
THE HEAT ENERGY  
OF ONE BARREL  
OF CRUDE OIL.



## LOOKING AHEAD...

BY THE TURN OF THE CENTURY  
ONTARIO WILL PROBABLY CONSUME,  
COMPARED WITH 1988, SOME 23%  
MORE NATURAL GAS, 16% MORE OIL,  
59% MORE COAL, AND 39% MORE  
ELECTRICITY.



CANADA'S PERIOD OF LIGHT  
CRUDE OIL SELF-SUFFICIENCY  
IS OVER. (LIGHT CRUDE OIL IS  
USED TO MAKE GASOLINE.)  
BY 1990, CANADA WILL BE  
IMPORTING 15% OF THE NATION'S  
LIGHT CRUDE OIL REQUIREMENTS  
AND AS MUCH AS 40% OF  
ITS REQUIREMENTS BY THE YEAR  
2005. ONTARIO CAN ONLY RELY  
ON WESTERN CANADIAN LIGHT  
CRUDE OIL SUPPLIES UNTIL  
THE YEAR 2000.



## WIND POWER BLOWS AWAY FUEL COSTS!

AT FORT SEVERN ON HUDSON BAY, A 150-KILOWATT WIND TURBINE SYSTEM SUPPLIES POWER TO 30 HOMES WHEN THE WINDS ARE HIGH. THIS REDUCES THE NEED FOR COSTLY FUEL FOR THE COMMUNITY'S DIESEL GENERATOR.

## A FISSION STORY

THE ENERGY PRODUCED BY THE ATOM-SPLITTING OF ONE KILOGRAM OF URANIUM-235 IS EQUIVALENT TO THE BURNING OF 1.3 MILLION KILOGRAMS OF COAL OR 1.35 MILLION LITRES OF FUEL OIL. THIS ENERGY-PRODUCING PROCESS IS KNOWN AS FISSION.

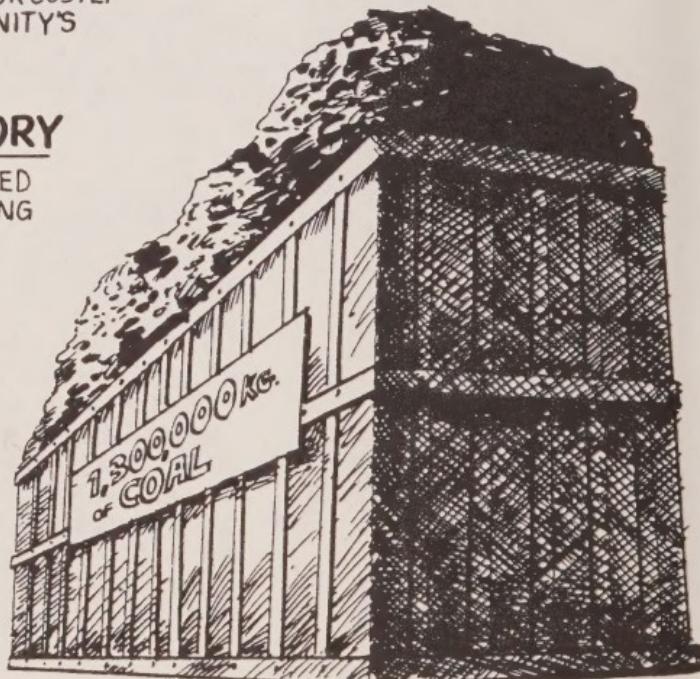
 =  
1 KILOGRAM  
OF URANIUM-235



## WILL POWER

CROZIER TAYLOR OF ELORA, ONTARIO WAS DETERMINED TO CUT DOWN HIS

ENERGY COSTS. BY HARNESSING THE POWER OF THE GRAND RIVER HE CREATED HIS OWN HYDRO PLANT, WHICH SUCCESSFULLY POWERS ALL THE ENERGY NEEDS FOR HIS 35-ROOM INN. THE OWNERS OF FRONTIER LODGE NEAR ELLIOT LAKE HAVE DONE THE SAME THING.



# *More!*

## **FASSINATING FACTS**

**Home is Where the Hearth is.** A typical Ontario family spent about \$2,500 on energy in 1986. More than half of that for vehicle fuel.

**Energy Diet.** Since 1980, energy consumption has been reduced 30% in 3,000 Ontario government buildings. Ontario colleges and universities have cut their energy consumption by 20%.

**Consuming Our Share.** Ontario, with 36% of Canada's population, accounts for some 33% of crude oil consumption, 40% of natural gas, 53% of coal, and 24% of wood and other fuel sources. But Ontario produces some 87% of the nation's nuclear power and 2% of its water-powered hydro-electricity.

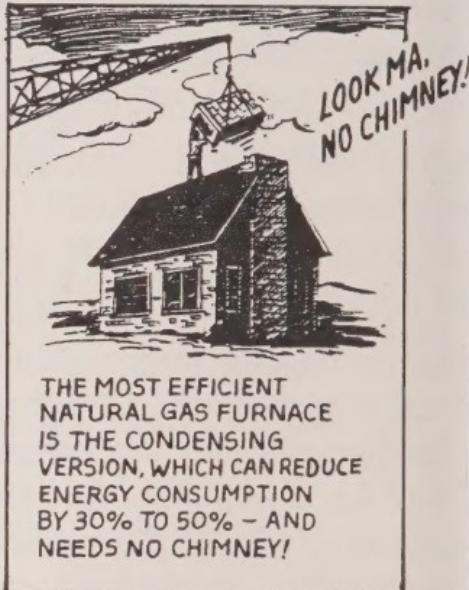
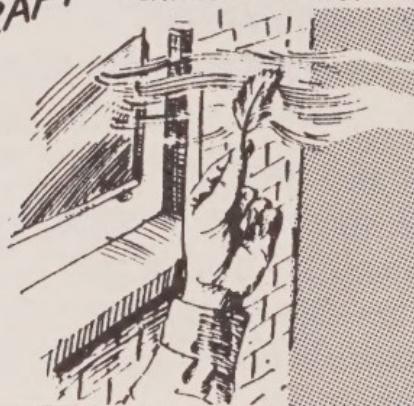
**Self-Sufficiency.** Ontario Hydro has 16 nuclear reactors now, and when the four more at Darlington start up between 1989 and 1992, *nuclear power will provide two-thirds of the province's electricity generation.*

# ON THE HOMEFRONT

Energy matters begin at home. And every small effort adds up. The nice thing about saving energy is that it's like having your cake and eating it too. It puts dollars in your pocket—and you can feel good for doing your part.

CATCH  
THE  
DRAFT

A DRAFT GAUGE - FEATHER,  
TISSUE PAPER OR PLASTIC  
SANDWICH BAG - WILL  
DETECT THE LEAKS THAT  
NEED CAULKING OR  
WEATHERSTRIPPING.



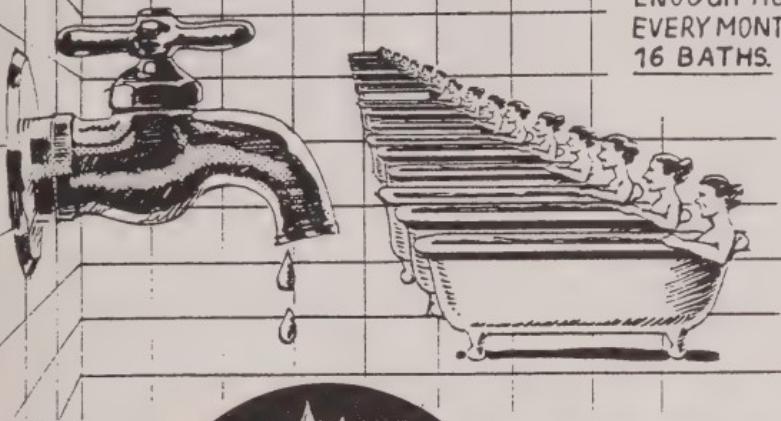
THE MOST EFFICIENT  
NATURAL GAS FURNACE  
IS THE CONDENSING  
VERSION, WHICH CAN REDUCE  
ENERGY CONSUMPTION  
BY 30% TO 50% - AND  
NEEDS NO CHIMNEY!



THE AVERAGE SINGLE-FAMILY HOME LOSES 25% OF ITS  
HEAT THROUGH AIR LEAKS! ELIMINATING AIR LEAKS IS THE  
MOST COST-EFFECTIVE WAY OF SAVING HEATING DOLLARS.

# WATER TORTURE

JUST ONE DROP PER SECOND FROM A LEAKY FAUCET WILL WASTE ENOUGH HOT WATER EVERY MONTH FOR 16 BATHS.



## ENERGY-EFFICIENT BUGS

IF ELECTRIC LIGHTS WERE AS EFFICIENT AS FIREFLIES OR GLOW-WORMS, THEY WOULD LOSE ONLY ONE-FIFTEENTH OF THEIR ENERGY TO GENERATE HEAT. THE GLOW WORM AND FIREFLY GIVE OFF "COLD-LIGHT."



SOME INDIANS IN SOUTH AMERICA PUT TWINKLING FIREFLIES IN WOMEN'S HAIR FOR DECORATION.

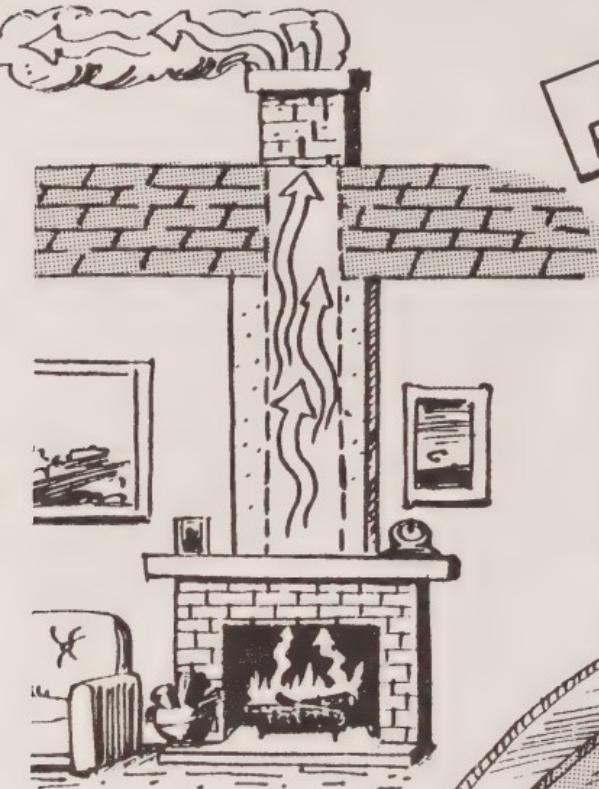
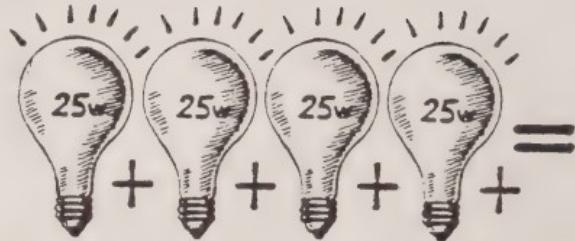


## ROOM AT THE TOP

BECAUSE HEAT RISES, INSULATING YOUR CEILING SHOULD BE A FIRST PRIORITY. IT'S EASY AND CAN SAVE UP TO 30% OF HEATING FUEL.

# MORE IS LESS

A FIXTURE WITH  
FOUR 25-WATT  
LIGHT BULBS GIVES  
HALF THE LIGHT  
OF ONE 100-WATT  
BULB.



## SINGLE PANE PAIN

A SINGLE PANE  
OF GLASS LOSES  
ABOUT 12 TIMES AS  
MUCH HEAT AS AN INSU-  
LATED WALL OF THE SAME  
AREA. DOUBLING ALL THE  
PANES IN A TYPICAL  
ONTARIO HOME SAVES  
ONE GALLON OF OIL OR  
128 CUBIC FEET OF  
NATURAL GAS ON JUST  
ONE TYPICAL  
WINTER DAY.

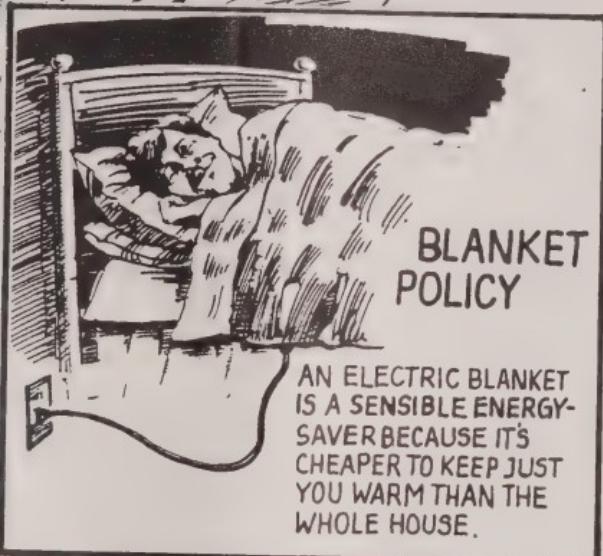
## \$ UP IN SMOKE !

MOST FIREPLACES  
WASTE MORE  
HEAT THAN  
THEY PRODUCE!



# GRANDMA KNEW BEST

THE MOST ENERGY-EFFICIENT CLOTHES DRYER IS A CLOTHES-LINE!



AN ELECTRIC BLANKET IS A SENSIBLE ENERGY-SAVER BECAUSE IT'S CHEAPER TO KEEP JUST YOU WARM THAN THE WHOLE HOUSE.

## NO PEEKING

ABOUT 20% OF AN OVEN'S HEAT IS LOST WHEN YOU OPEN THE DOOR. ALSO, WHEN COOKING A ROAST, USE THE LOWEST TEMPERATURE POSSIBLE AND INCREASE COOKING TIME. BY DOING THIS, YOU CAN REDUCE YOUR ENERGY CONSUMPTION BY 25% TO 50%, AND YOU GET A JUICIER ROAST!



## POLLY PUT THE KETTLE ON

AN ELECTRIC KETTLE USES HALF THE ENERGY REQUIRED TO HEAT WATER ON A BURNER.



## EASY TO SERVICE, TOO

THE MOST ENERGY-EFFICIENT SNOW CLEANER REQUIRES TWO DROPS OF OIL A YEAR - TO PREVENT RUST ON THE SHOVEL.

## MOCKING THE COLD

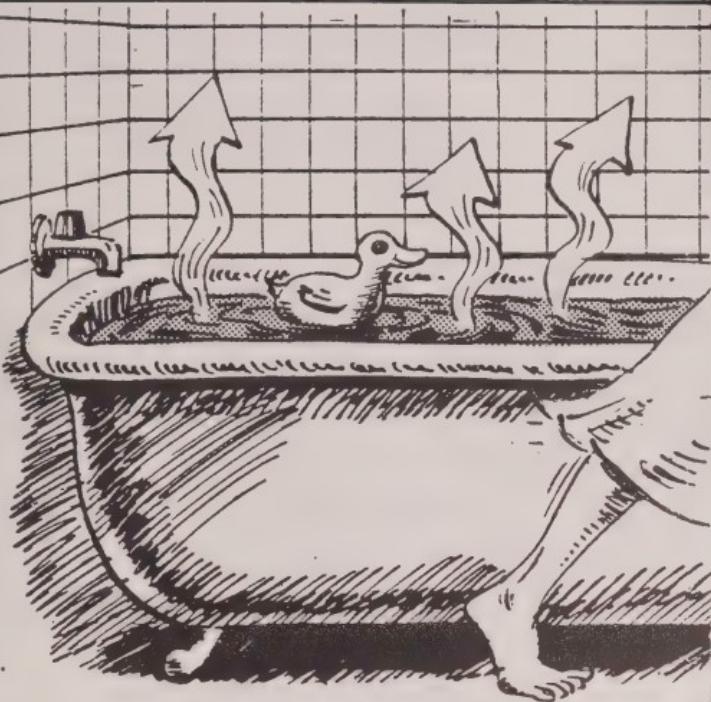
A SUPER INSULATED, DRAFT-FREE, ULTRA-QUIET R-2000 NEW HOME CAN CUT HEATING COSTS BY 70%.

## SOME LIKE IT HOT

A GOOD INSULATING JACKET CAN REDUCE THE HEAT LOSS THROUGH THE WALLS OF A HOT-WATER HEATER BY 80%.

## DOUBLE DUTY

AFTER A BATH OR  
DOING DISHES,  
LET THE HOT WATER  
SIT FOR A WHILE  
TO HEAT THE ROOM.



## THE TOO BIG CHILL

SET YOUR REFRIGERATOR AT 3°C (37°F) AND THE FREEZER SECTION AT -18°C (0°F) AND WATCH YOUR ENERGY SAVINGS GROW. SETTING THE TEMPERATURES LOWER CAN BUMP YOUR ENERGY CONSUMPTION BY UP TO 10%. AND REMEMBER, FROST-FREE REFRIGERATORS CAN COST 50% MORE TO RUN.

## LOCAL OPTIONS

ELECTRICAL SPACE HEATING IS USED IN 40% OF SINGLE FAMILY HOMES IN THE GEORGIAN BAY AREA; 34% IN NORTHEASTERN ONTARIO; AND 29% IN EASTERN ONTARIO. THIS COMPARES WITH THE TOTAL ONTARIO AVERAGE OF 18%. ABOUT ONE IN EIGHT HOMES ACROSS NORTHERN ONTARIO IS HEATED WITH WOOD STOVES.

## CURRENT ADVANTAGE

RESIDENTIAL ELECTRICITY BILLS FOR HOMES IN ONTARIO CITIES ARE APPROXIMATELY HALF THOSE OF DETROIT AND 40% OF THOSE IN CHICAGO.

*More*

**FASCINATING FACTS**

**Cool Cash-In.** For each degree you set your thermostat above 20°C (68°F) on a 24-hour basis, your fuel consumption will rise by 5%. The reverse is true for summertime air-conditioning—each degree above 20°C drops consumption by 5%. The recommended setting for an air-conditioner is 24°C (75°F).

**Pilot Error?** A gas furnace pilot eats up energy. Call your service centre to have it turned off during the summer months.

**Savings For Life.** Buying a new appliance? Using the Energuide label in selecting a new appliance can result in lifetime energy savings of \$808 for a refrigerator, \$554 for a freezer, \$721 on a clothes washer, and \$356 on a clothes dryer.

**Fan-tastic!** The electric fans in oil and gas furnaces consume about 13% of the home's electricity. Keep furnace filters clean so that your furnace works at peak efficiency.

**Zapping is Cheaper.** A microwave oven uses less than half the energy used by a standard range.

**Long Time You See.** Fluorescent lighting is four to five times as efficient as incandescent lighting. A 13-watt compact fluorescent bulb can be used in place of a standard 60-watt incandescent bulb and *lasts 10 times longer.*

# **ENERGY ON HOLIDAYS**

For many Ontarians, the great escape is the summer cottage. Here, too, there are opportunities for saving energy.

## **BIGGER AIN'T BETTER**

BOATERS CAN SAVE MONEY,  
AND PERHAPS THEIR LIVES,  
BY PURCHASING AN OUT-  
BOARD MOTOR  
THAT DOES  
THE JOB  
AND ISN'T  
TOO POWERFUL.  
SAY WHOA TO TOO MUCH  
HORSEPOWER!



## **MA NATURE TUCKS YOU IN**

TO KEEP COUNTRY HOUSE  
HEAT IN, PLANT CONIFEROUS  
TREES ON THE NORTH SIDE  
TO PROVIDE SHELTER FROM  
NORTHERLY WINDS. FOR SUMMER  
COOLING, PLANT DECIDUOUS TREES  
ON THE EAST, WEST AND SOUTH  
SIDES OF THE HOUSE.



## **WHEN THE LIVING IS EASY**

SUMMER COTTAGERS CAN SAVE ENERGY DOLLARS BY TURNING  
OFF THE HOT-WATER HEATER WHEN LEAVING AFTER A WEEKEND.  
YOU CAN SAVE A LOT MORE BY IMPROVING YOUR FLOOR INSULATION,  
ESPECIALLY IF YOUR HOLIDAY HAVEN IS ELEVATED ON PIERS.

# PEOPLE POWER

All year round, day and night, people use their own energy in various ways.



## FUELLED THE PEOPLE

PEOPLE RUN ON ENERGY TOO, AND FOOD IS OUR FUEL. THE MEASUREMENT OF HEAT ENERGY EXPENDED IS THE CALORIE. COMPARATIVE CALORIES EXPENDED PER MINUTE: FAST DANCING, 5.7; TENNIS, 7; RUNNING FIVE-MINUTE KILOMETRE, 15; PLAYING DRUMS, 4.6; IRONING, 2; GOLFING, 6; LYING AT EASE, 1.5.



## DOG-GONE ATHLETE



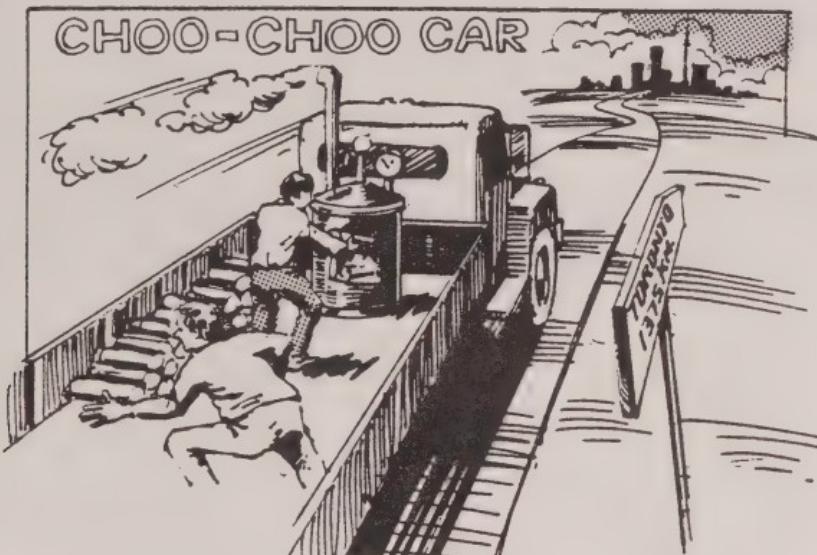
IF HUMANS HAD THE ENERGY ABILITY OF THE TINY FLEA FOUND ON DOGS, THEY COULD LEAP A 36-STORY BUILDING IN ONE BOUND!

## THE HEAT IS ON

FOR MAXIMUM COMFORT, THE BEST INSULATION AGAINST THE COLD IS WARM CLOTHING. THE AVERAGE MAN GIVES OFF ABOUT 390 BRITISH THERMAL UNITS (BTU) OF HEAT PER HOUR, WHILE THE AVERAGE WOMAN GIVES OFF 330 BTUs. DRESSING WISELY ALLOWS YOU TO RETAIN YOUR HEAT, AND TURN DOWN THE THERMOSTAT TOO.

# ON THE ROAD TO GREATER ENERGY EFFICIENCY

If you drive, chances are gasoline bills drive you around the bend! About half of your energy dollars disappear out your exhaust pipe. How and what you drive can make a big difference.



SOME ONTARIO COLLEGE STUDENTS WOULDN'T BE LUMBERED BY HIGH ENERGY COSTS. THEY DROVE A TRUCK FUELLED BY A WOOD-BURNING STOVE 1,375 KM (854 MILES) FROM THUNDER BAY ALL THE WAY TO TORONTO!



## SMALL VICTORY

SINCE 1978, NEW CARS, DOMESTIC AND FOREIGN, HAVE BECOME 25% MORE FUEL-EFFICIENT, WITH WEIGHT PARED BY 300 KG (660 LBS) AND ENGINES 35% SMALLER.

# FILL 'ER UP!

A TORONTO TEEN KNOWS  
WHAT IT TAKES TO SAVE FUEL.  
HE PUT A MODEL AIRPLANE  
ENGINE ON HIS SKATEBOARD  
AND GETS 53 KM/L  
(150 MPG)!

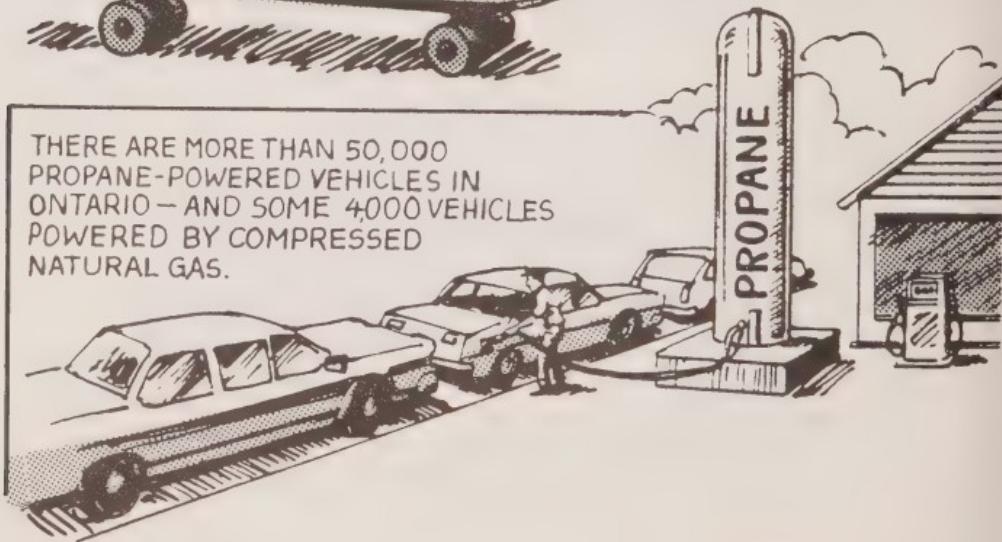


## TOTE THAT BARGE

THE BIGGEST FACTOR IN CAR MILEAGE  
IS WEIGHT. UNLOAD THAT TRUNK.

MEAN,  
CLEAN MACHINES

THERE ARE MORE THAN 50,000  
PROPANE-POWERED VEHICLES IN  
ONTARIO — AND SOME 4,000 VEHICLES  
POWERED BY COMPRESSED  
NATURAL GAS.



# *More!*

## FASSINATING FACTS

**Driving To The Poorhouse.** Driving a four-cylinder econobox rather than a six-cylinder car will save you approximately \$500 a year on gasoline, oil and maintenance costs.

**Big Gains.** In spite of the increase in vehicles on Ontario roads, transportation fuel consumed is still less than the peak of 18-billion litres (4-billion gallons) in 1979.

**Long Way To Go.** Ontario's per capita consumption of fuel to move people and goods is *almost double* that of West Germany and *more than double* that of the United Kingdom.

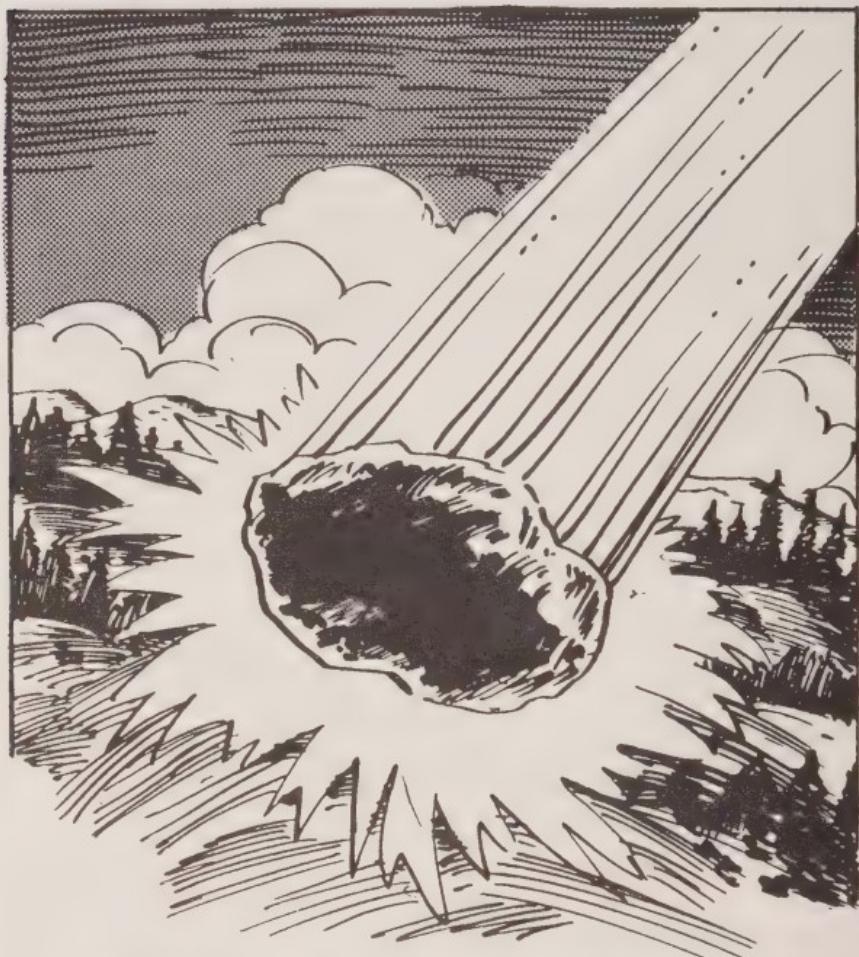
**Ease Off, Leadfoot!** Reducing speed from 95 kph (60 mph) to 80 kph (50 mph) saves 10% in fuel.

**Keep It Humming.** A proper engine tune-up can save you \$100 a year in fuel costs. An overly-rich air-fuel mixture caused by a sticking choke *can increase fuel consumption by 30%*.

**Profiting From Inflation.** Underinflated tires rob your fuel efficiency and your wallet! For every 14 kPa (2 psi) below the recommended pressure, efficiency is cut by 1%.

# ONTARIO'S ROLE IN ENERGY HISTORY

Ontario was at the forefront, sometimes unwittingly, in the annals of energy.



## IT CAME FROM OUTERSPACE!

THE NICKEL-RICH, OVAL-SHAPED SUDBURY BASIN  
WAS CREATED BY A GIANT METEOR

CRASHING TO EARTH MILLIONS OF YEARS AGO.



*Is THIS OZ?*

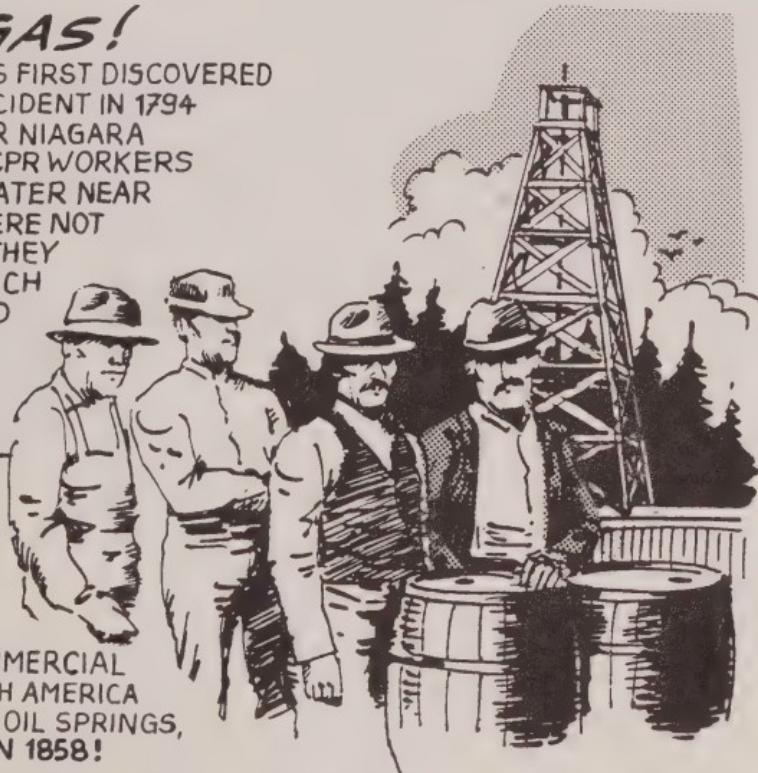
ELIZA HARRISON LEARNED ABOUT KINETIC ENERGY IN 1823 WHEN SHE HUNG OUT THE WASHING AT HER MILTON FARM HOME. SHE WAS PICKED UP BY A TORNADO AND CARRIED 800 METERS ( $\frac{1}{2}$  MILE), THEN SET DOWN WITHOUT A SCRATCH!!

## *IT'S A GAS!*

NATURAL GAS WAS FIRST DISCOVERED IN CANADA BY ACCIDENT IN 1794 IN A SPRING NEAR NIAGARA FALLS. IN 1883, CPR WORKERS DRILLING FOR WATER NEAR MEDICINE HAT WERE NOT AMUSED WHEN THEY STRUCK GAS, WHICH CAUGHT FIRE AND BURNED DOWN THEIR DERRICK.

**ONTARIO  
CAME  
BEFORE  
"DALLAS"**

THE FIRST COMMERCIAL OIL WELL IN NORTH AMERICA WAS DRILLED AT OIL SPRINGS, NEAR SARNIA, IN 1858!

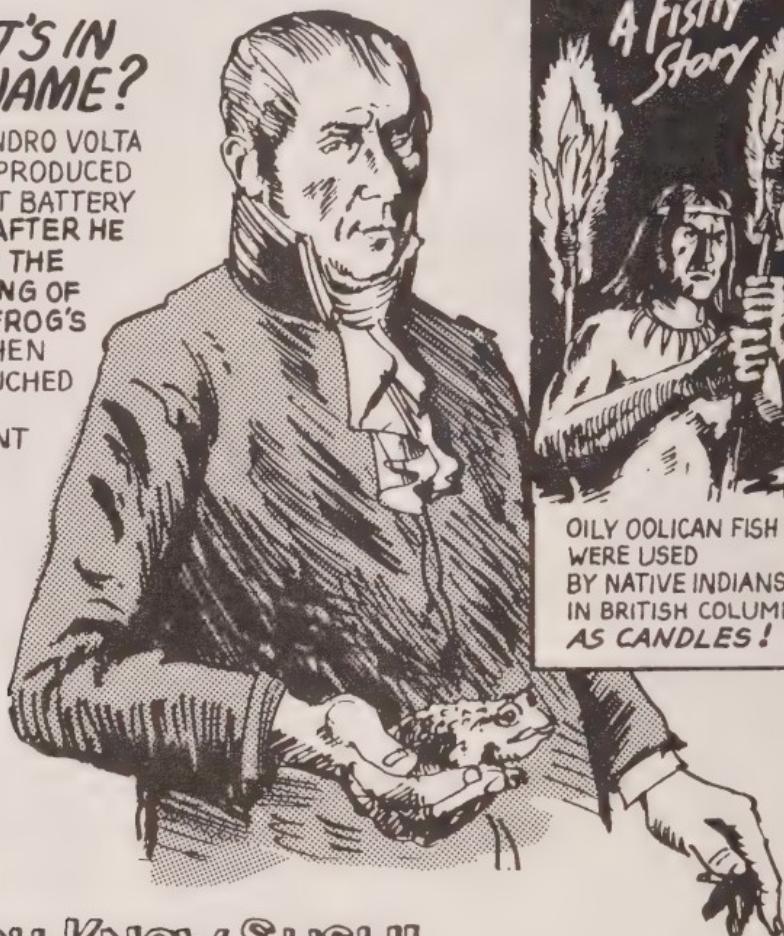


# CLOSE ENCOUNTERS OF THE ENERGY KIND

No matter where we live, or when we lived, energy brings some close encounters.

## WHAT'S IN A NAME?

ALLESSANDRO VOLTA OF ITALY PRODUCED THE FIRST BATTERY IN 1800 AFTER HE NOTICED THE TWITCHING OF A DEAD FROG'S LEGS WHEN THEY TOUCHED TWO DIFFERENT METALS!



## A Fishy Story



OILY OLICAN FISH WERE USED BY NATIVE INDIANS IN BRITISH COLUMBIA AS CANDLES!

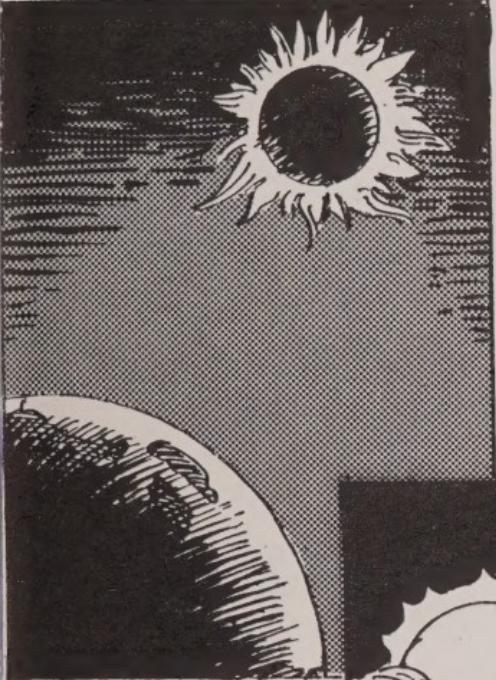
## IF YOU KNOW SUSHI

EACH YEAR TENS OF THOUSANDS OF AMERICAN EELS BORN IN THE SARGASSO SEA WIGGLE UP THE SPECIALLY BUILT EEL LADDER TO SURMOUNT HYDRO'S POWER DAM AT CORNWALL AND GROW BIG IN LAKE ONTARIO. THE EELS ARE PROFITABLE FISHERY. THEY ARE PICKLED, SMOKED AND MADE INTO SUSHI FOR THE EXPORT MARKET.

# KEEP SHINING- OR ELSE!

THE SUN IS A MASS OF GAS  
AND NOT A SOLID.

IF THE SUN BLACKS OUT,  
IT WOULD TAKE 8 MINUTES  
AND 20 SECONDS  
FOR OUR WORLD TO  
PLUNGE INTO  
TOTAL DARKNESS.



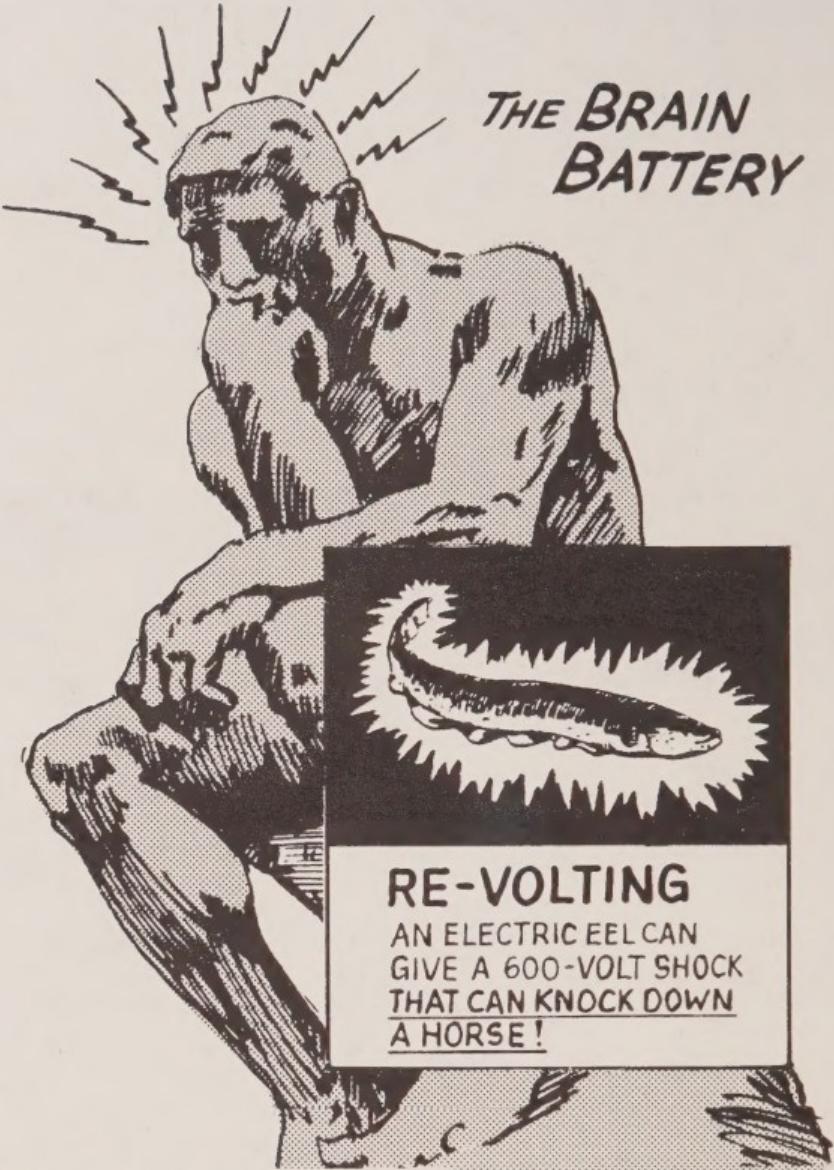
## RAH FOR RA

ALL LIVING THINGS  
ON EARTH DEPEND  
ON THE GREAT  
POWER OF ENERGY  
*FROM THE SUN*  
WORSHIPPED BY THE  
ANCIENT MAYANS  
AS THE SUN-GOD

RA.

WHEN COAL, OIL OR  
NATURAL GAS IS  
BURNED, PART OF THE  
ENERGY SUPPLIED BY  
THE SUN MILLIONS  
OF YEARS AGO  
IS RELEASED.





## THE BRAIN BATTERY

### RE-VOLTING

AN ELECTRIC EEL CAN  
GIVE A 600-VOLT SHOCK  
THAT CAN KNOCK DOWN  
A HORSE!

THE HUMAN BRAIN GIVES OFF WAVES OF ELECTRICAL IMPULSES AT REGULAR INTERVALS. WHEN YOUR BRAIN IS AT REST IT GIVES OFF 10 ALPHA WAVES A SECOND. WHEN YOU'RE THINKING, IT GIVES OFF 25 BETA WAVES A SECOND. THIS PHENOMENAL BRAIN POWER CAN NOW BE USED TO FIGURE OUT WAYS TO BECOME MORE ENERGY-EFFICIENT!

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# **FASCINATING FACTS**

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